

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	("6417060").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/20 09:47
S2	0	S1 and (semiconductor or dielectric\$)	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 10:05
S3	1	("5162243").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/20 12:19
S4	1	("20060180829").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/20 15:01
S5	1	S4 and cryogenic	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 10:15
S6	1	S3 and tunnel\$3	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 10:32
S7	19	(257/E21.353).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/20 10:47
S8	77	(257/E29.339).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/20 10:47
S9	237	gap adj diode	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 13:25
S10	4156	tunnel\$3 adj diode	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 15:40
S11	122	S10 and (emitter with collector with semiconductor)	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 13:47
S12	1	("6563185").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/20 13:27
S13	0	S12 and (emitter with collector with semiconductor)	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 13:27
S14	1	("6756649").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/20 13:28
S15	0	S14 and (emitter with collector with semiconductor)	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 13:29
S16	1	S14 and semiconductor	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 13:34
S17	1	2003GB-0022116.AP, PRAI.	DERWENT	OR	ON	2007/09/20 13:36
S18	80	S11 and (gap or vacuum)	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 14:05
S19	1	("6489704").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/20 14:05

S20	1	S19 and (gap or vacuum)	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 14:06
S21	1	S20 and collector	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 14:11
S22	1	S21 and tunnel\$3	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 14:13
S23	1	S19 and tunnel\$3	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 14:14
S24	1	S4 and emitter with semiconductor	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 15:02
S25	1	S4 and (emitter with (band adj gap))	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 15:28
S27	1	S4 and (cryogenic or cool \$3)	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 15:32
S28	5	tunnel\$3 adj diode with cryogenic	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 15:40
S29	58	( "3173032"   "3267308"   "3328611"   "3515908"   "3843986"   "3890161"   "3899696"   "3983423"   "4040903"   "4047093"   "4151438"   "4188571"   "4266179"   "4280074"   "4281280"   "4298768"   "4303845"   "4323808"   "4346330"   "4368416"   "4373142"   "4528417"   "4667126"   "4700099"   "4755350"   "4771201"   "4927599"   "5028835"   "5327038"   "5459367"   "5492570"   "5541464"   "5572042"   "5578886"   "5623119"   "5637946"   "5646474"   "5722242"   "5780954"   "5841219"   "5955772"   "5973259"   "5981071"   "5994638"   "6020671"   "6037697").PN. OR ("6489704").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/21 08:08
S30	1	("20040050415").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/20 17:28
S31	1	("5981071").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/20 17:28
S32	1	S31 and emitter and collector	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 17:28
S34	13613	collector with temperature	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/21 08:13

S35	140	collector with cryogenic	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/21 08:11
S36	36	S34 and S35	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/21 08:12
S38	58	( "3173032"   "3267308"   "3328611"   "3515908"   "3843986"   "3890161"   "3899696"   "3983423"   "4040903"   "4047093"   "4151438"   "4188571"   "4266179"   "4280074"   "4281280"   "4298768"   "4303845"   "4323808"   "4346330"   "4368416"   "4373142"   "4528417"   "4667126"   "4700099"   "4755350"   "4771201"   "4927599"   "5028835"   "5327038"   "5459367"   "5492570"   "5541464"   "5572042"   "5578886"   "5623119"   "5637946"   "5646474"   "5722242"   "5780954"   "5841219"   "5955772"   "5973259"   "5981071"   "5994638"   "6020671"   "6037697").PN. OR ("6489704").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/21 08:13
S39	4	S38 and cryogenic	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/21 08:15
S40	19	(thermo\$electric adj converter) and cryogenic	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/21 08:16
S41	1	("20070057277").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/21 13:41
S42	1	("20060180829").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/11 10:18
S43	1	S42 and emitter	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 10:18
S44	1	S42 and (emitter with band)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 10:26
S45	1	("6489704").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/11 11:00
S46	1	S45 and (K or temperature)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 11:00
S47	1	("4280074").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/11 12:22
S48	1	S47 and (emitter with semiconductor)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 12:22

S49	1	("20040050415").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/11 12:38
S50	1	S49 and ((collector or emitter) with semiconductor)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 12:39
S51	1	S49 and (K or temperature)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 12:42
S52	0	S49 and cryogenic	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 12:46
S53	1	("4373142").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/11 12:49
S54	0	S53 and ((collector or emitter) with semiconductor)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 12:49
S55	1	("20040029341").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/11 12:56
S56	0	S55 and ((collector or emitter) with semiconductor)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 12:56
S57	0	S55 and semiconductor	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 12:56
S58	0	S47 and (emitter with (dielectric or insulat\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 12:57
S59	1	S49 and ((collector or emitter) with (dielectric or insulat\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 12:58
S60	1	S49 and (low or cryogenic)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 12:58
S61	1	S53 and ((collector or emitter) with (dielectric or insulat\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 12:59
S62	0	S55 and ((collector or emitter) with (dielectric or insulat\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 13:03
S63	3579	(collector with (semi \$conductor or dielectric or insulat\$3)) and (emitter with (semi \$conductor or dielectric or insulat\$3)) and (gap or vacuum)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 13:18
S64	627	(collector with (semi \$conductor or dielectric or insulat\$3)) and (emitter with (semi \$conductor or dielectric or insulat\$3)) and ((gap or vacuum) with emitter with collector)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 13:18

S65	114	(collector with (semi \$conductor or dielectric or insulat\$3) with metal) and (emitter with (semi \$conductor or dielectric or insulat\$3) with metal) and ((gap or vacuum) with emitter with collector)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 13:19
S66	70	S65 and @ay <= "2003"	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 13:19
S67	1	("6396191").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/11 13:27
S68	1	S67 and (vacuum or gas)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 13:27
S69	1	S67 and (vacuum or gas)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 13:28
S70	140	(collector with (semi \$conductor or dielectric or insulat\$3)) and (emitter with (semi \$conductor or dielectric or insulat\$3)) and ((thermal or thermionic) with converter)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 13:45
S71	84	S70 and @ay <= "2003"	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 13:46
S72	1	("4280074").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/12 08:10
S73	1	S72 and "47"	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/12 08:10
S74	80	(thermionic or thermal) with converter and cryogenic and @ay <= "2003"	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/12 08:19
S75	1	("5018359").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/12 08:43
S76	1	("20060180829").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/14 11:10
S77	1	("6064137").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/14 11:28
S78	1	S77 and (heat adj pump)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/14 11:28
S79	1	S77 and converter	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/14 11:31
S80	1	("4280074").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/14 12:37
S81	0	S80 and (gap or distance of separat\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/14 12:37

S82	1	S77 and (gap or distance of separat\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/14 12:38
S83	1	("6417060").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/14 12:54
S84	1	S83 and distance	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/14 12:54

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